PUBLICATIONS:

Thornton, E.B. and R.J. Calhoun, 1972, Spectral resolution of breakwater reflected waves, J. Waterways, Harbors and Coastal Engineering, ASCE, 98 (WW4), 433-460.

Thornton, E.B. and R.F. Krapohl, 1974, Water particle velocities measured under ocean waves, J. Geophys. Res., 79 (6), 847-852.

Thornton, E.B., 1977, Rederivation of the saturation range in the frequency spectrum of wind-generated gravity waves, J. Phys., Oceanography, 7 (1), 137-140.

Thornton, E. B. and G. Schaeffer, 1978,"Probability Functions of Breaking Waves", Proceedings of 16th International Conference on Coastal Engineering, ASCE, 507-519.

Guza, R. T. and E. B. Thornton, 1978, Longshore Current Variability", Proceedings of 16th International Conference on Coastal Engineering, ASCE, 756-775.

Thornton, E. B., 1978, Discussion of "The Wave Pump: Conversion of Wave Energy to Current Energy", J. of Waterways, Port Coastal and Ocean Div., ASCE, Vol. 104, No. WW4, 459-460.

Thornton, E. B., 1979, "Energetics of Breaking Waves Within the Surf Zone", Journal of Geophysical Research, 84, 4931-4938.

Guza, R. T. and E. B. Thornton, 1980, "Local and Shoaled Comparisons of Sea Surface Elevations, pressure and velocities", J. of Geophysical Research, 85, 1524-1530.

Guza, R. T. and E. B. Thornton, 1981,"Wave Set-up on a Natural Beach", J. of Geophysical Research, 86, 4133-4137.

Huntley, D. A., R. T. Guza and E. B. Thornton, 1981, "Field Observations of Surf Beat: Part I, Progressive Edge Waves", J. of Geophysical Research, 86, 6451-6466.

Thornton, E. B. and R. T. Guza, 1981, "Longshore Currents and Bed Shear Stress", Proceedings of the Directional Wave Spectral Applications, '81 Conference, ASCE, 147-164.

Thornton, E. B. and R. T. Guza, 1982, "Energy Saturation and Phase Speeds Measured on a Natural Beach", J. of Geophysical Research, 8, 9499-9508.

Guza, R. T. and E. B. Thornton, 1982, "Swash Oscillations on a Natural Beach", J. of Geophysical Research, 87, 483-491.

Thornton, E.B. and R.T. Guza, 1983, Transformation of Wave Height Distribution, J. of Geophysical Research, 88 (C10), 5925-5938.

- Aranuvachapun, S. and E.B. Thornton, 1984, Spatial and temporal transformation of shallow water wave energy, J. Geophysical Research, 89 (C4), 6453-6465.
- Guza, R. T. and E. B. Thornton, 1985, "Velocity Moments in the Nearshore", J. Waterways, Harbours and Coastal Engineering, 111, 235-256.
- Guza, R. T. and E. B. Thornton, 1985, "Observations of Surf Beat", J. of Geophysical Research, 90, 3161-3172.
- Wu, C.-S., E. B. Thornton and R. T. Guza, 1985, "Waves and Longshore Currents: Comparison of Numerical Model with Field Data", J. of Geophysical Research, 90, 4951-4958.
- Thornton, E. B., C.-S. Wu and R. T. Guza, 1985, "Breaking Wave Design Criteria", 19th International Coastal Engineering Conference, ASCE, 31-41.
- Guza, R. T., E. B. Thornton, and R. Holman, 1985, "Swash on Steep and Shallow Beaches", 19th International Conference on Coastal Engineering, ASCE, 708-723.
- Thornton, E. B., and R. T. Guza, 1986, "Surf Zone Longshore Currents and Random Wave: Field Data and Models", J. Physical Oceanography, vol. 16, no. 7, 1165-1178.
- Guza, R. T., E. B. Thornton, and N. Christensen, Jr., 1986, "Observations of Steady Longshore Currents in the Surf Zone", J. of Physical Oceanography, 16, (11), 1959-1969.
- Wu, C.-S., and E. B. Thornton, 1986, "Wave Numbers and Linear Progressive Waves", J. of Waterways, Port, Coastal and Ocean Engineering, vol. 112, no. 4, 536-540.
- Wu, C.-S., and E. B. Thornton, 1986, A Discussion on "3-D Model of Shoreline Response to Structure", J. of Waterway, Port, Coastal and Ocean Engineering, vol. 112, no. 5, 543-546.
- Thornton, E. B., T. McGee, S. P. Tucker, and D. M. Burych, 1987, "Predicting Erosion on the Recessive Monterey Bay Shoreline", Proc. of Sediments '87 Conference, ASCE. 1809-1824.
- Martens, D. E. and E. B. Thornton, 1987, "Nearshore Zone Monitoring System", Proc. of Coastal Hydrodynamics Conf., ASCE, 579-588.
- Abdelrahman, S. M. and E. B. Thornton, 1987,"Changes in the Short Wave Amplitude and Wavenumber Due to the Presence of Infragravity Waves", Proc. of Coastal Hydrodynamics Conf., ASCE, 458-478.
- Whitford, D. J. and E. B. Thornton, 1987, "Measuring Wind and Wave Forcing of Longshore Currents During SUPERDUCK A Preliminary Analysis", Proc. of Coastal Hydrodynamics Conf., ASCE, 589-602.

- Guza, R. T. and E. B. Thornton, 1989, "Chapter 4: Measuring Surf Zone Dynamics: A. General- Measurements", Nearshore Sediment Transport, R. J. Seymour editor, Plenum Press, New York, NY, pp. 51-60.
- Thornton, E. B. and R. T. Guza, 1989, "Chapter 8: Wind Wave Transformation", Nearshore Sediment Transport, R. J. Seymour editor, Plenum Press, New York, NY, pp. 137-172.
- Guza, R. T. and E. B. Thornton, 1989, "Chapter 9: Runup and Surf Beat", Nearshore Sediment Transport, J. Seymour editor, Plenum Press, New York, NY, pp. 173-182.
- Thornton, E. B. and R. T. Guza, 1989, "Chapter 10: Nearshore Circulation: A. Conservation Equations for Unsteady Flow", Nearshore Sediment Transport, R. J. Seymour editor, Plenum Press, New York, NY, pp. 183-204.
- Thornton, E. B. and R. T. Guza, 1989, "Chapter 16: Models for Surf Zone Dynamics", Nearshore Sediment Transport, R. J. Seymour editor, Plenum Press, New York, NY, pp. 337-370.
- Committee on Coastal Engineering Measurement Systems (Member), 1989, "Measuring and Understanding Coastal Processes for Engineering", National Academy Press, Washington, D. C., pp. 117.
- Dodd, N. and E. B. Thornton, 1990, "Growth and Energetics of Shear Waves in the Nearshore", J. of Geophysical Research, 95, No. C9, pp. 16,075-16,083.
- Marom, M, R. M. Goldstein, E. B. Thornton, L. Shemer, 1990, "Remote Sensing of Ocean Waves by Interferometric SAR", Nature Vol 345, No 6278, pp. 793-795.
- Dodd, N., J. Oltman-Shay, and E. B. Thornton, 1991, "Instabilities of Longshore Current", Proc. 22nd International Conf. Coastal Engineering, ASCE, pp. 584-596.
- Marom, M., L. Shemer and E. B. Thornton, 1991, "Energy Density Directional Spectra of Nearshore Wavefield Measured by Interferometric Synthetic Aperature Radar", J. Geophysical Research, 96(C12), 22,125-22,134.
- Wyland, R. M. and E. B. Thornton, 1991, "Comparison of Extremal Wave Statistics Using Three Hindcast Data Sets", J. Waterway, Post. Coastal and Ocean Division, Proc. of the American Society of Civil Engineering, WW1(5), pp. 60-74.
- Shemer, L., N. Dodd and E. B. Thornton, 1991, "Slow-time Modulation of Finite-depth Nonlinear Water Waves: Relation to Longshore Current Oscillations" J. Geophysical Research, 96 (C4). pp. 7105-7114.

Scott, K.A. and E.B. Thornton, 1991, "Mean Currents and Sediment Transport at DELILAH", Proc. SEDIMENTS 91' Conf., American Soc. Civil Eng., 477-488.

Dodd, N., J. Oltman-Shay, and E. B. Thornton, 1992, "Instabilities of Longshore Current: Comparison of Observation and Theory", J. Physical Oceanography, 22(1), 62-82.

Thornton, E. B., and S. Abdelrahman, 1991, "Sediment Transport in the Swash due to Obliquely Incident Wind-waves Modulated by Infragravity Waves", Proc. SEDIMENTS 91' Conf., American Soc. Civil Engineering, 100-113.

Abreu, M., A. Larraza and E.B. Thornton, 1992, "Nonlinear transformation of directional wave spectra in shallow water" J. Geophysical Research, 97, (C10), 15,579-15,589.

Thornton, E.B., and J.C. Church, 1992, "Modeling strong longshore currents during DELILAH", Proc. 23rd Coastal Engineering Conf., American Society of Civil Engineers, 3012-3025.

Church, J.C., E.B. Thornton and J. Oltman-Shay, 1992, "Mixing by shear instabilities of the longshore current", Proc. 23rd Coastal Engineering Conf., American Society of Civil Engineers, 2999-3011.

Dodd, N. and E.B. Thornton, 1992, "Longshore current instabilities: growth to finite amplitude", Proc. 23rd Coastal Engineering Conf., American Society of Civil Engineers, 2655-2668.

Whitford, D. J. and E. B. Thornton, 1993, "Comparison of Wind and Wave Forcing of Longshore Currents", Continental Shelf Research, 13(11), 1205-1218.

Thornton, E.B. and C.S. Kim, 1993, "Longshore Current and Wave Height Modulation at Tidal Frequency Inside the Surf Zone", J. Geophysical Research, 98(C9), 16,509-16,519.

Church, J.C. and E.B. Thornton, 1993, "Effects of Breaking Wave Induced Turbulence within a Longshore Current Model", J. Coastal Engineering, 20, 1-28.

Dickson, W.S., T.H.C. Herbers and E.B. Thornton, 1994, "wave reflection from a breakwater", J. Waterway, Port, Coastal and Ocean Engineering, 121 (5), 262-268.

Whitford, D. J. and E. B. Thornton, 1996, "Bed shear stress coefficients for longshore currents over a barred profile≅, Coastal Engineering, 27, 243-262.

Thornton, E.B., R.T. Humiston and W. Birkemeier, 1996, "Bar/trough generation on a natural beach", J. Geophysical Research, 101 (C5), 12,097-12,110.

Lippmann, T., E.B. Thornton and H. Brookins, 1996, ABreaking Wave Transformation using a Roller Model≅, Coastal Engineering, 27, 1-20.

Lippmann, T. and E.B. Thornton, 1997, The Spatial Distribution of Wave Rollers and Turbulent Kinetic Energy on a Barred Beach, submitted to the J. Geophys. Res. Faria, A.F.G., E.B. Thornton, T.P. Stanton, C.M.C.V. Soares, and T. Lippmann 1998, Vertical profiles of longshore currents and related bed shear stress bottom roughness, J. Geophysical Research, 103(C2), 3217-3232.

Thornton, E.B., J.L. Swayne and J.R. Dingler, 1998, Small-scale morphology related to waves and currents across the surf zone, Marine Geology, 145 (3-4), 173-196, 1998.

Lippmann, T.C., C.F. Jorgensen and E.B. Thornton, 1997, Wave slopes and breaking distributions in the surf zone, submitted to the J. Geophys. Research.

Lippmann, T.C., T.H.C. Herbers and E.B. Thornton, 1999, Gravity and shear wave contributions to nearshore infragravity motions, J. Physical Oceanography, 29 (2), 231-239.

Reniers, A.J.H.M., E.B. Thornton and T.C. Lippmann, 1997, Effects of Alongshore Non-uniformities on longshore currents measured in the field, submitted to the J. Geophys. Research.

Gallagher, E.L., S. Elgar, and E.B. Thornton, 1998, Observations and predictions of megaripple migration in a natural surf zone, Nature, Vol. 394, 165-168.

Garcez Faria, A.F.G., E.B. Thornton, T.C. Lippmann and T.P. Stanton, 2000, Undertow over a barred beach, J. Geophysical Research, 105 (C7), 16,999-17,010.

Huck, M.P., E.B. Thornton and T.P. Stanton, 2000, Vertical and horizontal length scales of suspended sediments in the nearshore, submitted to J. Geophysical Research.

Reniers, A.J.H.M., A. van Dongeren, J. Battjes, and E.B. Thornton, 2000, Linear modeling of infragravity waves during Delilah, accepted J. Geophysical Research.

Reniers, A.J.H.M., E.B. Thornton, T.C. Lippmann J.A. Battjes, 2001, Effects of Alongshore Non-uniformities on Longshore Currents Measured during Delilah, submitted to J. Geophysical Research.

Chen, Q., J.T. Kirby, R.A. Dalrymple, F. Shi, and E.B. Thornton, 2001, Boussinesq Modeling of Longshore Currents, submitted to J. Geophysical Research.

Gallagher, E.L., E.B. Thornton and T.P. Stanton, 2001, Predicting large-scale bedforms in the nearshore, submitted to J. Geophys. Res.

Gallagher, E.L., and E.B. Thornton, 2001, Megaripples in the surf zone and their relation to steady flow dunes, submitted to Marine Geology.